

## TITLE: LOW POWER SIGNAL DETECTION

## ABSTRACT OF THE DISCLOSURE

The present invention provides a low power method and apparatus for detecting a  
5 signaling tone. The apparatus comprises a resonator which can be configured to resonate at a  
specified frequency, a controller for configuring the resonator, and a comparator for  
comparing the output of the resonator as configured by the controller. The method comprises  
configuring the resonator to resonate at a first frequency to generate an output, configuring  
the resonator to resonate at a second frequency to generate an output, comparing the outputs,  
10 and indicating the presence of a signal if the output of the resonator configured to resonate at  
a first frequency exceeds the output of the resonator configured to resonate at a second  
frequency by a predefined amount.